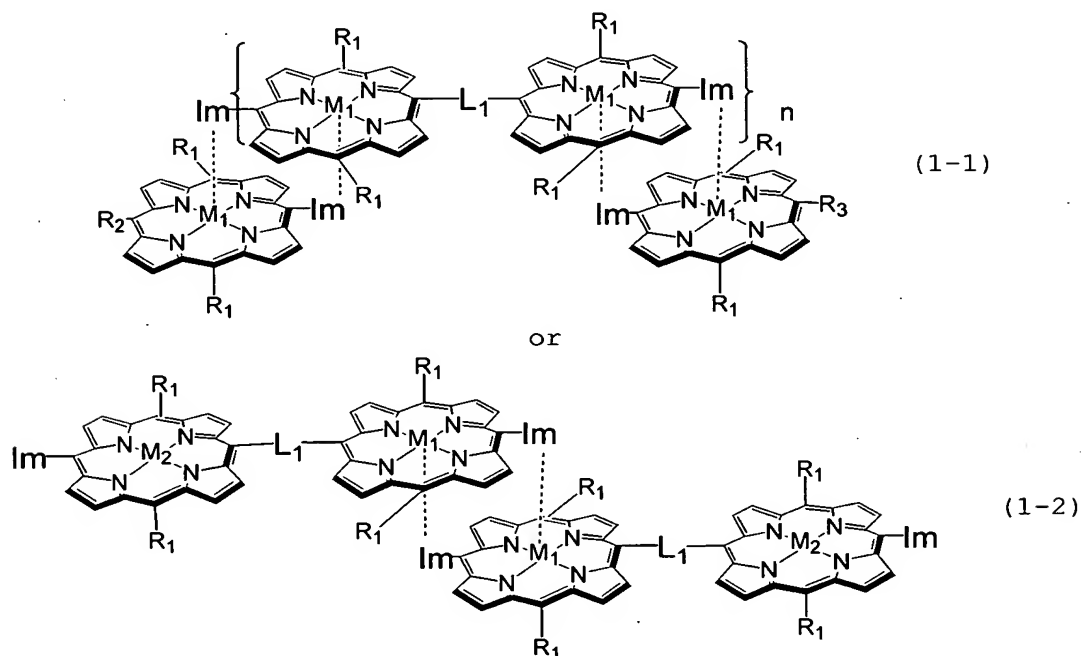


ABSTRACT OF THE DISCLOSURE

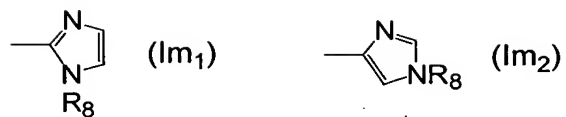
A porphyrin array exhibiting a large two-photon absorption property, and being linked with an acetylenic bond(s), represented by the following formulas:



wherein R_1 represents an alkyl or aryl group, M_1 represents a metal ion capable of serving as a core metal and forming a coordinate bond with Im, M_2 represents two protons or a metal ion incapable of forming a coordinate bond with Im, R_2 and R_3 represent a group selected from a porphyrin residue or porphyrin metal complex residue, a cyclic diimide residue, a dialkylviologen residue, a benzoquinone residue, an N-methylpyrrolidine-fullerene derivative residue and a ferrocene residue, Im is represented by Im₁ or Im₂:

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(R₈ represents methyl or H), L₁ represents $-(C\equiv C-)_m-$
 (m = 1 to 3); n represents an integer of 1 or more; R₉
 represents one of R₁, R₂, R₃ and Im.